

# DELPHION

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## Derwent Record

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Derwent Title: **Wear resistant coating is formed in and-or on IC engine component, especially a valve seat in a light metal IC engine cylinder head, using a diamond-metal composite material**

Original Title:  **EP1048825A1: Method for applying a wear resistant coating in/on parts of a combustion engine, especially a valve seat**

Assignee: **BAYERISCHE MOTOREN WERKE AG** Standard company  
Other publications from **BAYERISCHE MOTOREN WERKE AG (BAYM)...**

Inventor: **BERGMANN H W; DETTLING H; MITTRACH J; WALDMANN H; WALLMANN C; WUNDER J;**

Accession/ Update: **2000-681213 / 200528**

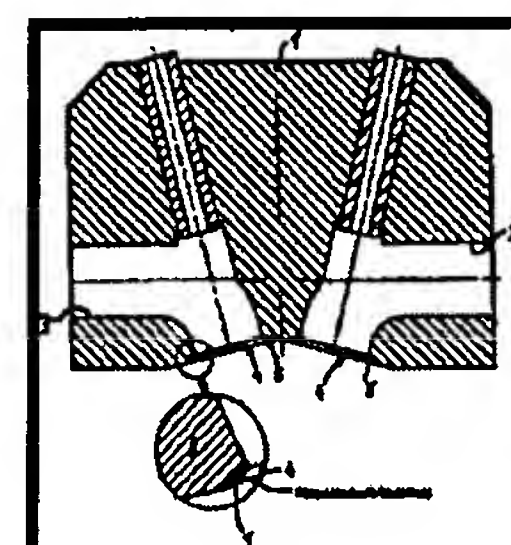
IPC Code: **F01L 3/04 ; C23C 26/02 ;**

Derwent Classes: **M13; Q51;**

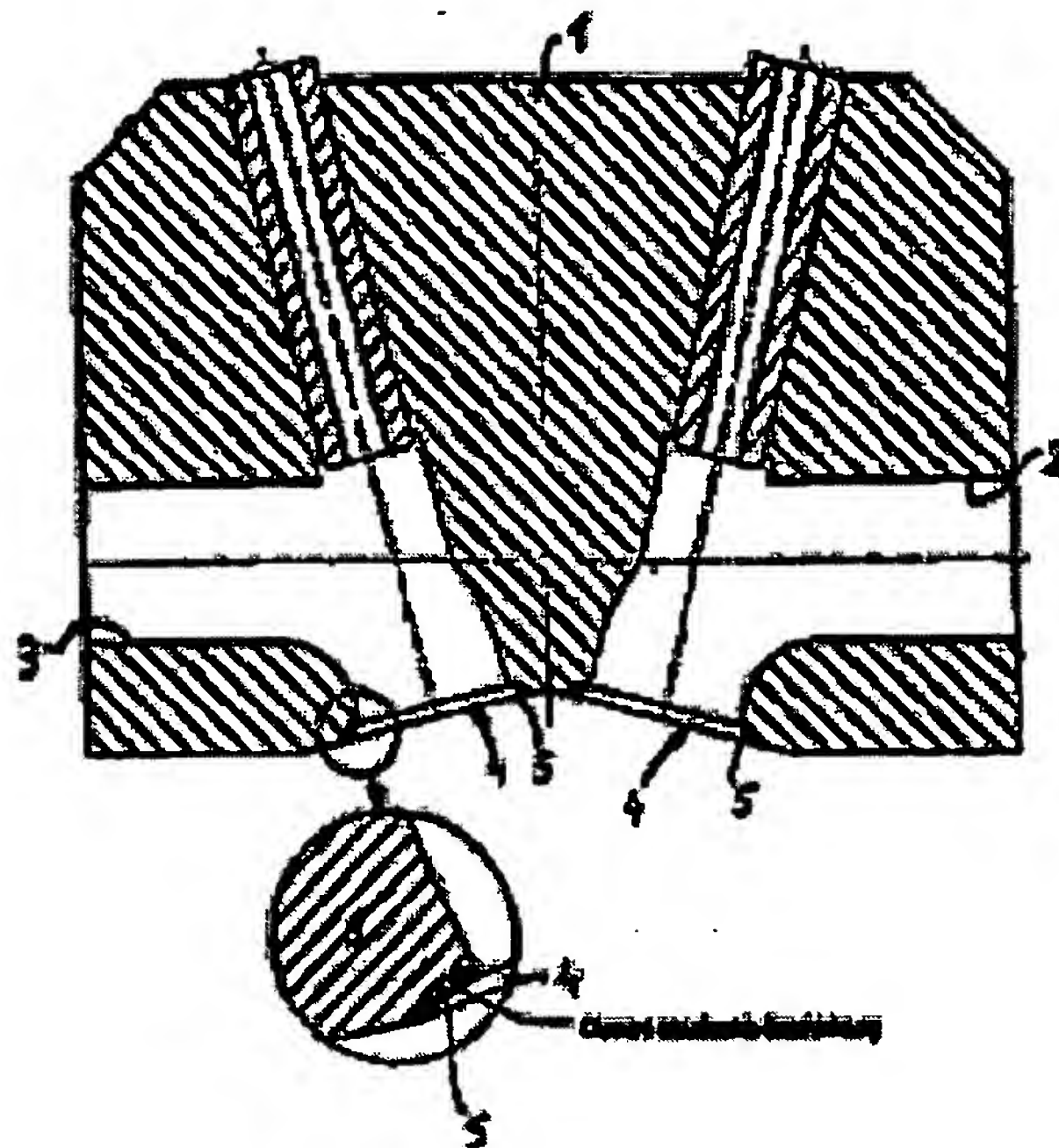
Manual Codes: **M13-H04(Refractory coatings [general])**

Derwent Abstract: **( EP1048825A) Novelty** - Wear resistant coating formation in and/or on an IC engine component, using a diamond-metal composite material, is new.  
**Use** - Especially for a valve seat in a light metal IC engine cylinder head, for a valve operating component such as a valve reinforcement, valve lever or control cam, for tribological sliding surfaces in IC engine crank drives or for repair of worn or damaged surface regions.  
**Advantage** - The process forms a highly wear resistant, heat dissipating and mechanically resistant coating at relatively low cost.

Images:



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**Description of Drawing(s)** - The drawing shows a schematic view of a coating formed by the process of the invention on a valve seat in a light metal cylinder head of an IC engine.

Cylinder head 1, Gas inlet channel 2, Gas outlet channel 3, Valve seat 4, Diamond-metal composite material coating 5 Dwg.1/1

#### Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
<input checked="" type="checkbox"/> <b>EP1048825A1</b> *	2000-11-02	200067	9	German	F01L 3/04
Des. States: (R) AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
Local appls.: <u>EP2000000108215</u> Filed:2000-04-14 (2000EP-0108215)					
<input checked="" type="checkbox"/> <b>ES2228329T3</b> =	2005-04-16	200528		Spanish	F01L 3/04
Local appls.: Based on <u>EP01048825</u> (EP 1048825) <u>EP2000000108215</u> Filed:2000-04-14 (2000EP-0108215)					
<input checked="" type="checkbox"/> <b>DE50008880G</b> =	2005-01-13	200506		German	F01L 3/04
Local appls.: Based on <u>EP01048825</u> (EP 1048825) <u>EP2000000108215</u> Filed:2000-04-14 (2000EP-0108215) <u>DE2000000508880</u> Filed:2000-04-14 (2000DE-0508880)					
<input checked="" type="checkbox"/> <b>EP1048825B1</b> =	2004-12-08	200480	5	German	F01L 3/04
Des. States: (R) DE ES FR GB IT					
Local appls.: <u>EP2000000108215</u> Filed:2000-04-14 (2000EP-0108215)					

#### INPADOC Legal Status:

#### Show legal status actions

#### First Claim: Show all claims

1. Verfahren zur Ausbildung einer verschleißfesten Beschichtung in/an Bauteilen einer Brennkraftmaschine, insbesondere Ventilsitz,

- wobei die Beschichtung Diamant-Material enthält, dadurch gekennzeichnet,
- dass zur Beschichtung ein Diamant-Metall-Verbundwerkstoff verwendet

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Priority Number:

Application Number	Filed	Original Title
DE1999001018813	1999-04-26	

Title Terms:

WEAR RESISTANCE COATING FORMING IC ENGINE COMPONENT VALVE  
SEAT LIGHT METAL IC ENGINE CYLINDER HEAD DIAMOND METAL  
COMPOSITE MATERIAL

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